

## CHALLENGE

A major operator in the UK North Sea could not gain access to the wellbore of a producing well due to scale build up in the wellhead "Christmas Tree" (XT), confirmed visually by camera. They were looking for a treatment method that could effectively remove the scale without damaging any components of the wellhead.

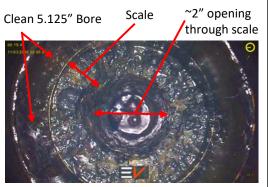
### HIGHLIGHTS

Calcium Carbonate (CaCO3) scale Restriction due to scale ~ 2.0"

#### CONDITIONS

KILL -

Depth: 35 m (120 ft) Temperature: 10 °C (50 °F) Treated Sea Water/TEG in wellbore

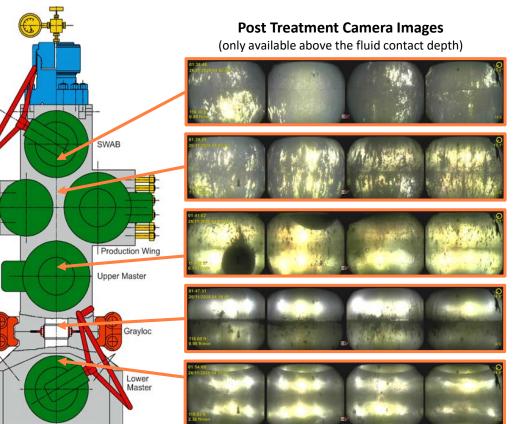


Before treatment image, supplied by EV

## OUTCOME

- Up to 1.5" thick scale was removed over the treated intervals, as confirmed by camera images
- The customer now had access through the XT into the main wellbore

Wellbore access established through XT



# SOLUTION

Remove scale by pulsing downward using electrohydraulic pulsing technology

- The BLUESPARK® 275 tool was run in on 3<sup>rd</sup> partų wireline
- Heavy scale (~1.5" thick) was encountered in various sections of the XT
- Several runs were made to clear scale from the swab valve down past the Lower Master Valve (LMV)
- A camera was run post-treatment to confirm the scale removal and the condition of the XT

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Scale Removal